IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APR 17 2000

Applicant : Swarn S. Kalsi   Art Unit : 2834
Serial No. : 09/371,692   Examiner : G. Perez
Filed : August 10, 1999
Title : SUPERCONDUCTING ELECTRIC MOTOR

Assistant Commissioner for Patents
Washington, D.C. 20231

RESPONSE AND AMENDMENT

In response to the office action mailed December 10, 1999, please amend the application as follows:

In the Claims:

Please amend claims 7 and 17 as follows:

7. **(Amended)** The superconducting electric motor of claim 6 further comprising a cryostat positioned between the thermal isolation vacuum region and the <u>induction structure</u> [electromagnetic shield member].

17. **(Amended)** A superconducting electric motor comprising:

> a rotor assembly including at least one superconducting winding comprising a high temperature superconductor, the superconducting winding, in operation, generating flux within the rotor assembly, the rotor assembly [and stator assembly] configured to operate

>> in a synchronous mode of operation at temperatures wherein the superconducting winding exhibits superconducting characteristics and

>> in an induction mode at temperatures wherein the superconducting winding exhibits non-superconducting characteristics;

> a cryostat surrounding the rotor assembly to maintain the at least one superconducting winding at cryogenic temperatures; and

> induction structure, which during operation, carries current at levels sufficient to allow the steady-state induction mode of operation of the superconducting electric motor, the induction structure including:

RECEIVED

APR 2 1 2000

TECHNOLOGY CENTER 2800